

**YOUR LOGO
HERE**

Cement Recommendation
Intermediate Casing

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ABC Production
ShowMeMoney 99

Pecos County, TX
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Intermediate Casing

Job Data			
MD / TVD	12,000.0	Casing	7 in 20 #, (0 to 12,000ft)
Est, BHST/BHCT	152F/152F (0.60F/100 ft)	Previous Casing	9.625 in. 29.3#(Surface to 3,000 ft)
Mud Weight / Type	11 ppg, WBM	Open Hole	8.5 in. (3,000 to 12,000ft)
DV Tool Set @	5000		

Calculations										
Stage	Length, ft	Csg / OH ID, in	Csg OD,in	Exs, %	cf/ft	Vol,cf	Vol, bbl			
1st stg lead	2,000	8.500	7	25	0.159	318	56.5			
1st stg tail	5,000	8.500	7	25	0.159	794	141.4			
Shoe Cement	90	6.456		0	0.227	21	3.7			
2nd stg lead	3,000	9.063	7	0	0.181	543	96.7			
2nd stg lead	500	8.500	7	0	0.127	64	11.3			
2nd stg tail	1,500	8.500	7	0	0.127	191	33.9			

Spacer	
50 bbls UF II @ 12 ppg : (+ 10 lb/bbl 100 Mesh + 2 lb/bbl C-16A)	

1st stg lead Cement			
20:80 (POZ:Class H) + 8% Bentonite + 0.2% C-16A + 5% Micro Sillex			
TOC	5,000	Slurry Density (ppg)	12
Vol (Sks)	133	Yield (cf/sx)	2.38
Exs, (%)	25	Water (gps)	13.67
Other info add later			

1st stg tail Cement			
50:50 (POZ:Class H) + 2% Bentonite + 0.3% C-16A + 0.1% CR-1			
TOC	7,000.0	Slurry Density (ppg)	14.5
Vol (Sks)	754	Yield (cf/sx)	1.08
Exs, (%)	25	Water (gps)	4.41
Other info add later			

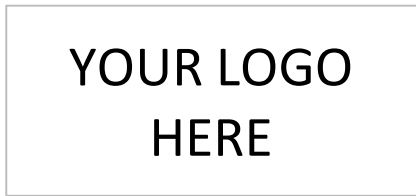
Displacement	
301 bbls of WBM @ 11 ppg	

Spacer Stage 2	
40 bbls Spacer: Fresh Water @ 8.34 ppg	

2nd stg lead Cement			
Class H + 10% Bentonite			
TOC	Surface	Slurry Density (ppg)	11.5
Vol (Sks)	204	Yield (cf/sx)	2.97
Exs, (%)	0	Water (gps)	18.21
Other info add later			

2nd stg tail Cement			
Class H			
TOC	3500	Slurry Density (ppg)	15.6
Vol (Sks)	161	Yield (cf/sx)	1.18
Exs, (%)	0	Water (gps)	5.29
Other info add later			

Displacement	
202.4 bbls of WBM @ 8.34 ppg	



Intermediate Casing

ODESSA, TX						
	Quantity	Unit	Unit Price	Discount	Amount	After Discount
Depth Charge						
Casing 4500'-6000' 6hrs on Location	1	Ea	\$6,000.00	0.0%	\$6,000.00	\$6,000.00
Casing 12000'-13500' 6hrs on Location	1	Ea	\$11,000.00	0.0%	\$11,000.00	\$11,000.00
Casing Additional hours, per Pump	4	Ea	\$900.00	0.0%	\$3,600.00	\$3,600.00
Casing Additional hours, per bulk unit	8	Ea	\$600.00	0.0%	\$4,800.00	\$4,800.00
Mileage Charge						
Equipment Mileage	60	Mile	\$11.00	0.0%	\$660.00	\$660.00
Pick-up Mileage Charge	60	Mile	\$8.00	0.0%	\$480.00	\$480.00
Cement Delivery Charge						
Cement Delivery/Return Charge	3,194	T/M	\$2.80	0.0%	\$8,944.01	\$8,944.01
Field Silo	2	Ea	\$2,750.00	0.0%	\$5,500.00	\$5,500.00
Air Supply Trailer	1	Job	\$11,500.00	0.0%	\$11,500.00	\$11,500.00
Bulk Plant						
Bulk Material Mixing Service Charge	1,287	Cuft	\$2.35	0.0%	\$3,023.83	\$3,023.83
Miscellaneous Services						
Crew Safety and Performance	1	Job	\$1,450.00	0.0%	\$1,450.00	\$1,450.00
Safety Restraint System	1	Job	\$600.00	0.0%	\$600.00	\$600.00
Casing Equipment						
Top Plugs Rubber	1	Ea	\$800.00	0.0%	\$800.00	\$800.00
Cementing Materials						
Class H Cement	848	Sks	\$27.00	0.0%	\$22,906.80	\$22,906.80
POZ (F)	344	Sks	\$23.00	0.0%	\$7,902.92	\$7,902.92
Bentonite	4,036	Lbs	\$1.10	0.0%	\$4,439.13	\$4,439.13
Micro Silex	584	Lbs	\$2.30	0.0%	\$1,342.90	\$1,342.90
CFL-3	100	Lbs	\$27.90	25.0%	\$2,790.00	\$2,790.00
CR-1	59	Lbs	\$19.20	0.0%	\$1,136.43	\$1,136.43
C-16A	301	Lbs	\$21.00	0.0%	\$6,319.36	\$6,319.36
Laboratory Testing Charges						
Lab Testing	2	Test	\$2,250.00	0.0%	\$4,500.00	\$4,500.00

	Price Book Total	\$109,695.38
0%	Discount	\$0.00
	Price	\$109,695.38

Oil Service Company

Sales Order#: 123456A
Date: 43508
Customer : ABC Production
Well name: ShowMeMoney 99
Job Type Intermediate Casing

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Product Description

Class C Is an API cement intended for surface to a depth of 6000 ft. Class C is sulfate resistant and yields early compressive strengths.

Class H Is an API cement intended for use from surface to 8000 feet without any modifications. When used with accelerators or retarders class H can be used for different depths or temperatures.

BSE-2 Is a powdered additive, which provides expansion while slurry is in fluid state. It can be used to improve cement bond to pipe as well as combat gas migration., more reliable than BSE-1 with more consistent results

TSM-1 Is a suspension aid for preparing lightweight slurries from all types of oil well cement. It may also be used as an accelerator. Typical loadings range from 0.1% to 2.5% BWOC.

AS-3 Is a polymeric additive designed to help control free water and to suspend solids in cement slurries, particularly at higher temperatures where metasilicate products are difficult to retard. C-51 also gives some fluid loss control in most applic

CaCl2 - (Calcium Chloride) Is an accelerating additive used for slurries that require fast set times and early strength development, or can be used as an accelerator for Sodium Silicate applications